

**CAMECO RESOURCES
CROW BUTTE OPERATION**



**86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169**

**(308) 665-2215
(308) 665-2341 – FAX**

June 30, 2008

Mr. Keith I McConnell, Deputy Director
Decommissioning and Uranium Recovery Licensing Directorate
Division of Waste Management and Environmental Protection
Office of Federal and State Materials and Environmental Management Programs
Mailstop T8-F5
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Re: Source Materials License SUA-1534
Docket No. 40-8943
CM9-5 Monitor Well Excursion

Dear Mr. McConnell:

On May 15, 2008 during routine biweekly water sampling of Crow Butte Operation (CBO) perimeter monitor well CM9-5, the multiple parameter upper control limit (UCL) was exceeded for conductivity and the single parameter upper control limit was exceeded for alkalinity. As required by License Condition 11.2 of Source Materials License SUA-1534, a second sample was collected within 48 hours and analyzed for the three excursion indicator parameters. The results of the second sample exceeded the multiple UCL for conductivity and the single UCL for alkalinity. Based on these results, CM9-5 was placed on excursion status.

In accordance with License Condition 11.2, CBO increased sampling frequency for CM9-5 to weekly. Weekly samples were obtained from May 16, 2008 to June 24, 2008. The samples collected on May 20 and 27, 2008, and June 3, 10, 17, and 24, 2008 were below the excursion criteria from the permit. Based on these results, CBO is removing CM9-5 from excursion status and is returning it to routine biweekly sampling. Attached are copies of the analytical data for each of the weekly samples and graphs for each parameter covering the period of November 29, 2007 to June 24, 2008.

If you have any questions or require any further information, please do not hesitate to call me at (308) 665-2215 Ext. 117.

CROW BUTTE RESOURCES, INC.



Mr. Keith McConnell
June 30, 2008
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Sincerely,
CAMECO RESOURCES, CROW BUTTE OPERATION.

A handwritten signature in black ink that reads "Walter D. Nelson". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Walter D. Nelson
Environmental Leadership Coordinator

Enclosures: As Stated

cc: U.S. Nuclear Regulatory Commission
Mr. Stephen J. Cohen - ADDRESSEE ONLY
Fuel Cycle Licensing Branch
Mailstop T8-F5
Washington, DC 20555

Mr. Steve Magnuson - CBO, Denver

Sample Date 5/15/08
Analysis Date 5/15/08

Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
BOW96-1	222	314	262	500	791	659	6.8	24	20
CM6-2	295	436	364	1920	2822	2352	190	279	233
CM6-28	316	449	374	1850	2894	2412	182	307	256
CM6-29	300	448	373	1910	3024	2520	185	321	268
CM6-3	294	441	367	1930	2808	2340	186	269	224
CM6-30	314	459	383	1860	2952	2460	182	328	274
CM6-31	315	464	386	1880	2851	2376	184	301	251
CM6-32	310	461	384	1900	2981	2484	184	292	244
CM8-24	322	458	382	1860	2971	2484	182	278	232
CM8-25	312	449	374	1860	3355	2796	181	357	298
CM9-1	303	482	402	1890	2837	2364	201	288	240
CM9-10	300	359	299	1800	2390	1992	186	292	244
CM9-2	302	439	366	1840	2779	2316	186	297	247
CM9-3	333	448	373	2010	2664	2220	215	266	222
CM9-4	389	464	386	2270	3067	2556	241	383	319
CM9-5	469	449	374	2500	2952	2460	259	328	274
CM9-6	311	449	374	1860	3082	2568	192	377	314
CM9-7	299	464	386	1810	2808	2340	183	285	238
CM9-8	300	418	348	1820	2952	2460	187	366	305
CM9-9	304	475	396	1810	2923	2436	187	334	278
SM10-30	227	359	299	510	778	648	6.4	25	21
SM10-31	226	340	283	510	734	612	5.9	25	21
SM10-32	228	340	283	510	734	612	5.8	23	20
SM8-17	224	331	276	510	848	707	7.1	24	20
SM8-18	223	317	264	520	816	680	9.9	25	21

Sample Date 5/16/08
Analysis Date 5/16/08

Crow Butte Project

Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM9-5	456	449	374	2470	2952	2460	260	328	274

Sample Date 5/20/08
Analysis Date 5/20/05

Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM10-10	321	475	396	1850	2736	2280	174	275	229
CM10-11	315	481	401	1850	2808	2340	173	288	240
CM10-12	321	446	372	1850	2923	2436	174	327	272
CM10-13	328	481	401	1830	2779	2316	175	287	239
CM10-14	337	490	408	1770	2578	2148	164	251	209
CM10-15	346	504	420	1710	2491	2076	167	253	211
CM10-16	321	484	403	1820	2650	2208	167	253	211
CM10-17	328	475	396	1840	2664	2220	169	248	206
CM10-8	318	475	396	1860	2707	2256	175	265	221
CM10-9	315	468	390	1850	2693	2244	174	269	224
CM4-4	312	433	361	1890	3002	2502	191	310	258
CM4-5	304	413	344	1920	3171	2642	193	336	280
CM4-6	297	405	337	1850	2812	2344	182	264	220
CM7-10	297	454	378	1900	2877	2398	185	297	247
CM7-11	287	432	360	1910	2817	2347	188	281	234
CM7-12	292	422	352	1930	2794	2328	187	289	241
CM9-18	296	445	371	1860	2794	2328	188	294	245
CM9-19	297	454	378	1880	2952	2460	191	315	263
CM9-20	295	431	359	1890	2779	2316	190	279	233
CM9-5	394	449	374	2250	2952	2460	234	328	274
IJ13P	875	415	346	4840	2900	2417	556	278	232
PR15	713	444	370	4190	2792	2327	478	268	223
PR8	1038	484	403	5120	2866	2388	593	282	235
SM10-16	256	382	318	580	850	708	8.4	28	23
SM10-17	251	374	312	560	835	696	8.5	28	23

Sample Date 5/27/08
Analysis Date 5/27/08

Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM5-18	308	441	367	1940	2916	2430	189	315	263
CM5-19	316	425	354	2120	2916	2430	213	320	266
CM5-20	333	445	371	2250	2929	2441	237	310	258
CM5-21	303	441	367	1970	2910	2425	193	275	229
CM5-22	300	435	362	1950	2903	2419	191	302	252
CM6-12	298	436	364	1940	2794	2328	189	279	233
CM6-13	301	446	372	1950	2866	2388	189	285	238
CM6-14	293	436	364	1940	2909	2424	186	297	247
CM6-15	286	444	370	1940	2779	2316	182	287	239
CM6-16A	300	418	348	1930	3082	2568	189	338	282
CM6-17	296	442	368	1920	2779	2316	186	275	229
CM6-18	300	442	368	1930	2909	2424	186	302	252
CM6-19	305	452	377	1920	2880	2400	188	295	246
CM6-25	303	433	361	1910	2952	2460	189	317	264
CM6-26	301	448	373	1900	2952	2460	187	338	282
CM9-5	338	449	374	2040	2952	2460	214	328	274
IJ13P	888	415	346	4980	2900	2417	551	278	232
PR15	700	444	370	4210	2792	2327	477	268	223
PR8	1038	484	403	5120	2866	2388	592	282	235
SM4-2	202	513	393	670	1256	1039	17	127	88
SM4-3	203	361	301	650	1251	1043	16	38	32
SM5-17	166	264	220	420	694	578	2.2	27	23
SM5-18	171	259	216	440	707	589	3.4	31	26
SM5-19	182	285	238	480	757	631	4.6	27	22
SM5-20	179	268	223	500	750	625	5.7	32	27

Sample Date 6/3/08
Analysis Date 6/3/08

Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM10-10	320	475	396	1840	2736	2280	184	275	229
CM10-11	316	481	401	1840	2808	2340	177	288	240
CM10-12	323	446	372	1860	2923	2436	179	327	272
CM10-13	330	481	401	1840	2779	2316	175	287	239
CM10-14	337	490	408	1770	2578	2148	168	251	209
CM10-15	346	504	420	1730	2491	2076	175	253	211
CM10-16	327	484	403	1810	2650	2208	171	253	211
CM10-17	335	475	396	1850	2664	2220	181	248	206
CM10-8	319	475	396	1860	2707	2256	184	265	221
CM10-9	316	468	390	1860	2693	2244	182	269	224
CM4-4	318	433	361	1900	3002	2502	188	310	258
CM4-5	311	413	344	1940	3171	2642	195	336	280
CM4-6	303	405	337	1850	2812	2344	181	264	220
CM7-10	298	454	378	1900	2877	2398	187	297	247
CM7-11	299	432	360	1920	2817	2347	189	281	234
CM7-12	297	422	352	1940	2794	2328	189	289	241
CM9-18	303	445	371	1860	2794	2328	190	294	245
CM9-19	302	454	378	1890	2952	2460	191	315	263
CM9-20	301	431	359	1890	2779	2316	186	279	233
CM9-3	392	448	373	2210	2664	2220	235	266	222
CM9-5	323	449	374	1960	2952	2460	209	328	274
IJ13P	875	415	346	4910	2900	2417	563	278	232
PR15	725	444	370	4220	2792	2327	480	268	223
PR8	1050	484	403	5160	2866	2388	599	282	235
SM10-16	257	382	318	580	850	708	9	28	23

Sample Date 6/10/08
Analysis Date 6/10/08

Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM5-10	282	403	336	1920	2943	2453	178	333	277
CM5-11	311	438	365	1970	2897	2414	191	307	256
CM5-12	297	456	380	1920	2982	2485	185	323	269
CM5-13	295	373	311	1930	3149	2624	186	386	322
CM5-6	306	458	382	1880	2844	2370	182	292	244
CM5-7	308	433	361	1900	2870	2392	185	288	240
CM5-8	345	448	373	2100	2876	2396	207	289	241
CM5-9	300	433	361	1900	2864	2387	184	289	241
CM8-1	273	455	379	2000	3110	2592	184	372	310
CM8-10	316	441	367	1880	3038	2532	185	315	263
CM8-11	317	446	372	1870	3053	2544	180	325	271
CM8-2	308	395	329	1950	3125	2604	189	334	278
CM8-3	313	432	360	1970	3211	2676	192	367	306
CM8-4	298	428	356	1920	3125	2604	189	328	274
CM8-5	303	425	354	1930	3067	2556	188	328	274
CM8-6	300	432	360	1930	3067	2556	187	317	264
CM8-7	324	425	354	2050	3154	2628	204	396	330
CM8-8	305	418	348	1900	3211	2676	186	415	346
CM8-9	310	452	377	1890	3053	2544	184	325	271
CM9-3	339	448	373	2040	2664	2220	215	266	222
CM9-5	329	449	374	2000	2952	2460	210	328	274
IJ13P	881	415	346	4980	2900	2417	557	278	232
PR15	738	444	370	4260	2792	2327	488	268	223
PR8	1050	484	403	5180	2866	2388	599	282	235
SM4-4	220	266	222	640	1099	916	13	62	52

Sample Date
Analysis Date

6/17/08
6/17/08

Crow Butte Project Monitor Well Laboratory Report

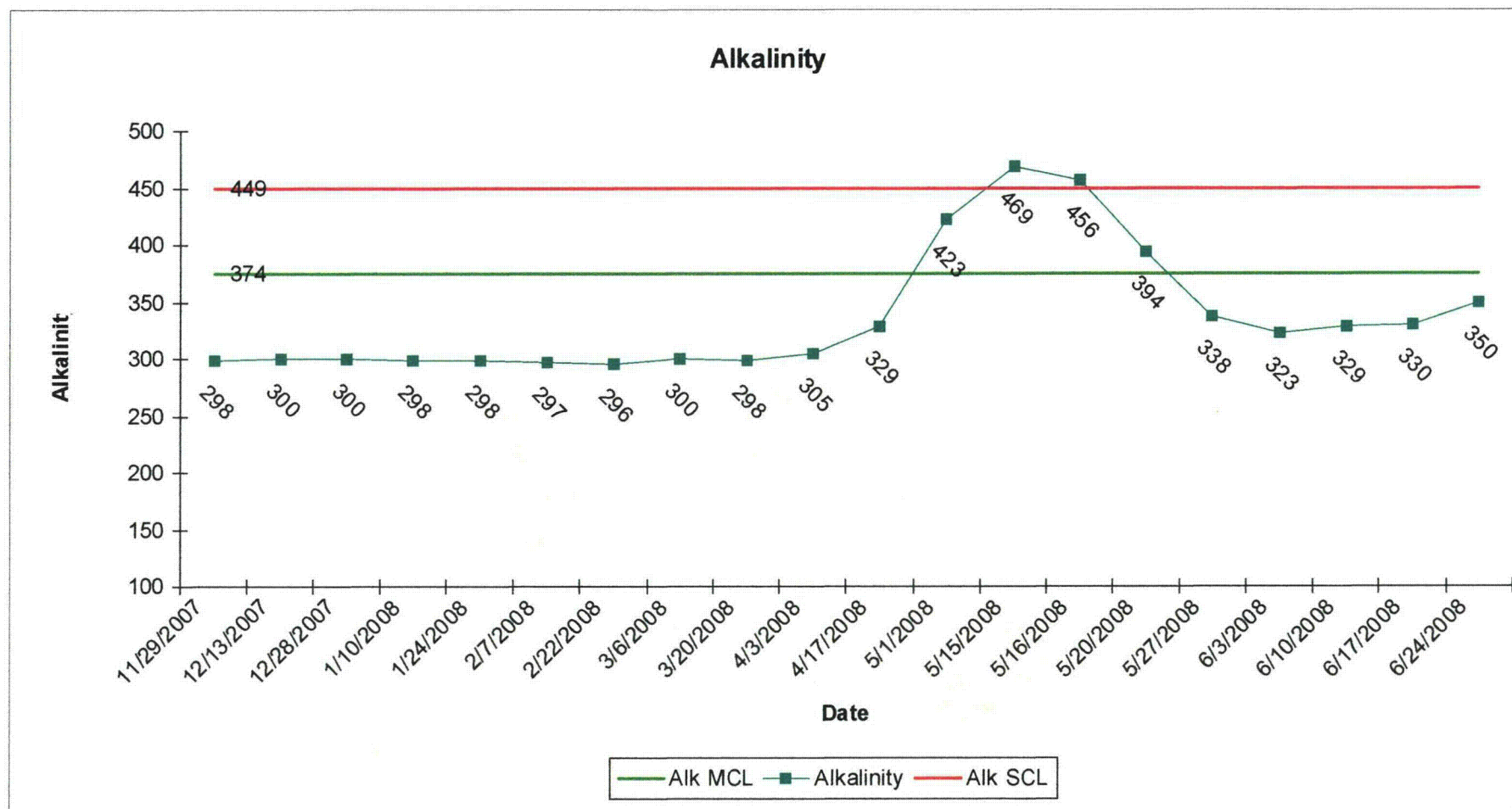
Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM10-10	318	475	396	1870	2736	2280	182	275	229
CM10-11	313	481	401	1860	2808	2340	179	288	240
CM10-12	317	446	372	1850	2923	2436	175	327	272
CM10-13	325	481	401	1850	2779	2316	172	287	239
CM10-14	333	490	408	1790	2578	2148	166	251	209
CM10-15	341	504	420	1730	2491	2076	175	253	211
CM10-16	326	484	403	1810	2650	2208	171	253	211
CM10-17	333	475	396	1840	2664	2220	176	248	206
CM10-8	315	475	396	1860	2707	2256	181	265	221
CM10-9	314	468	390	1860	2693	2244	180	269	224
CM4-4	314	433	361	1900	3002	2502	188	310	258
CM4-5	307	413	344	1960	3171	2642	203	336	280
CM4-6	300	405	337	1850	2812	2344	186	264	220
CM7-10	295	454	378	1910	2877	2398	188	297	247
CM7-11	295	432	360	1920	2817	2347	187	281	234
CM7-12	292	422	352	1940	2794	2328	187	289	241
CM9-18	300	445	371	1870	2794	2328	190	294	245
CM9-19	299	454	378	1890	2952	2460	190	315	263
CM9-20	295	431	359	1890	2779	2316	190	279	233
CM9-3	317	448	373	1950	2664	2220	207	266	222
CM9-5	330	449	374	2010	2952	2460	211	328	274
IJ13P	888	415	346	4900	2900	2417	559	278	232
PR15	738	444	370	4280	2792	2327	489	268	223
PR8	1050	484	403	5180	2866	2388	598	282	235
SM10-16	254	382	318	580	850	708	9.1	28	23

Sample Date 6/24/08
Analysis Date 6/24/08

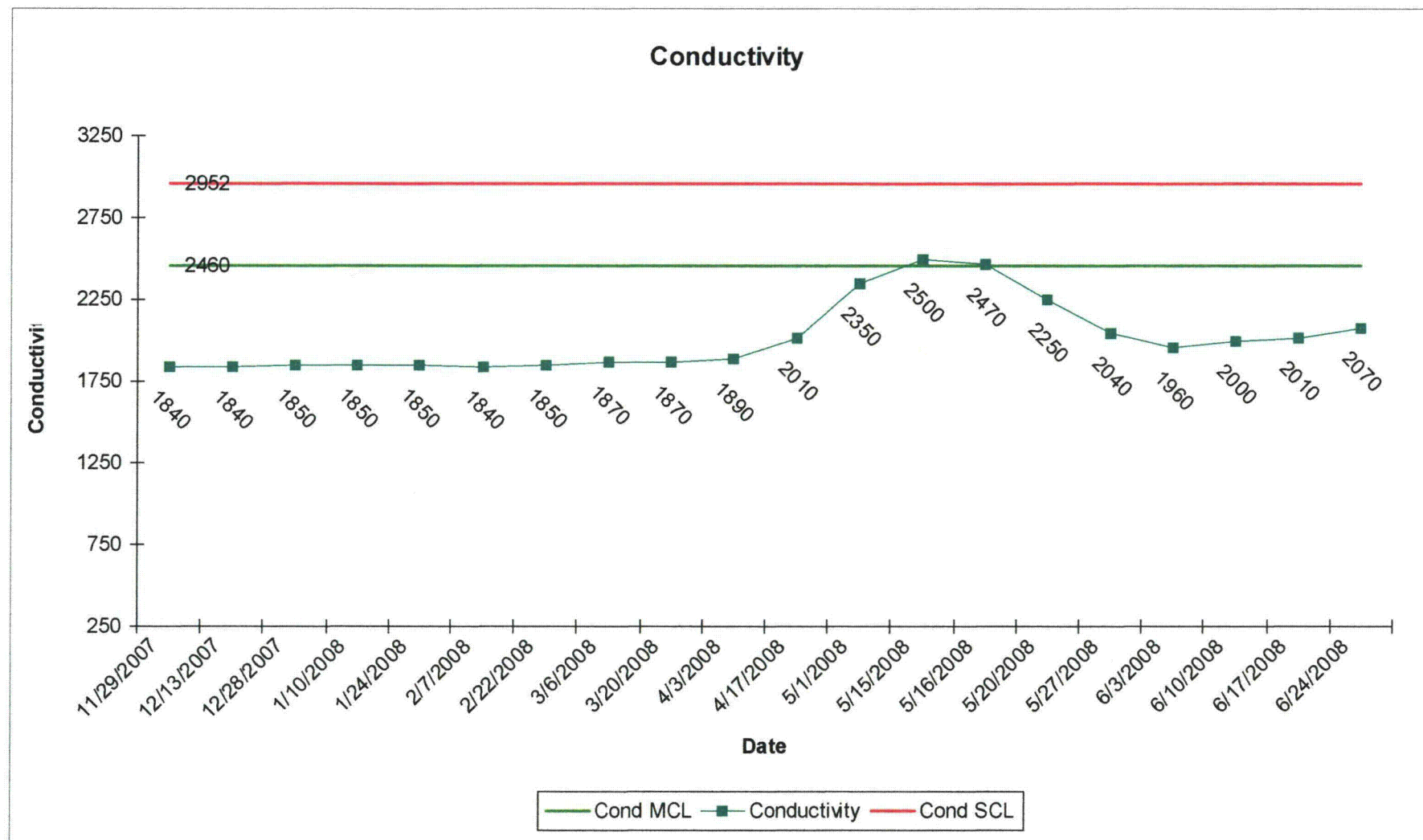
Crow Butte Project Monitor Well Laboratory Report

Well ID	Alkalinity			Conductivity			Chloride		
	(mg/L)	Alk SCL	Alk MCL	(µmho/cm)	Cond SCL	Cond MCL	(mg/L)	Cl SCL	Cl MCL
CM5-10	290	403	336	1940	2943	2453	184	333	277
CM5-11	313	438	365	1990	2897	2414	192	307	256
CM5-12	297	456	380	1920	2982	2485	184	323	269
CM5-13	295	373	311	1930	3149	2624	185	386	322
CM5-6	305	458	382	1880	2844	2370	186	292	244
CM5-7	307	433	361	1900	2870	2392	184	288	240
CM5-8	344	448	373	2100	2876	2396	203	289	241
CM5-9	301	433	361	1900	2864	2387	182	289	241
CM8-1	301	455	379	1940	3110	2592	188	372	310
CM8-10	322	441	367	1920	3038	2532	182	315	263
CM8-11	321	446	372	1880	3053	2544	183	325	271
CM8-2	310	395	329	1960	3125	2604	185	334	278
CM8-3	314	432	360	1980	3211	2676	191	367	306
CM8-4	301	428	356	1920	3125	2604	185	328	274
CM8-5	305	425	354	1940	3067	2556	190	328	274
CM8-6	300	432	360	1940	3067	2556	188	317	264
CM8-7	327	425	354	2070	3154	2628	205	396	330
CM8-8	304	418	348	1910	3211	2676	188	415	346
CM8-9	311	452	377	1890	3053	2544	183	325	271
CM9-3	312	448	373	1930	2664	2220	197	266	222
CM9-5	350	449	374	2070	2952	2460	217	328	274
IJ13P	900	415	346	5000	2900	2417	554	278	232
PR15	738	444	370	4260	2792	2327	485	268	223
PR8	1063	484	403	5170	2866	2388	597	282	235
SM4-4	242	266	222	650	1099	916	11	62	52

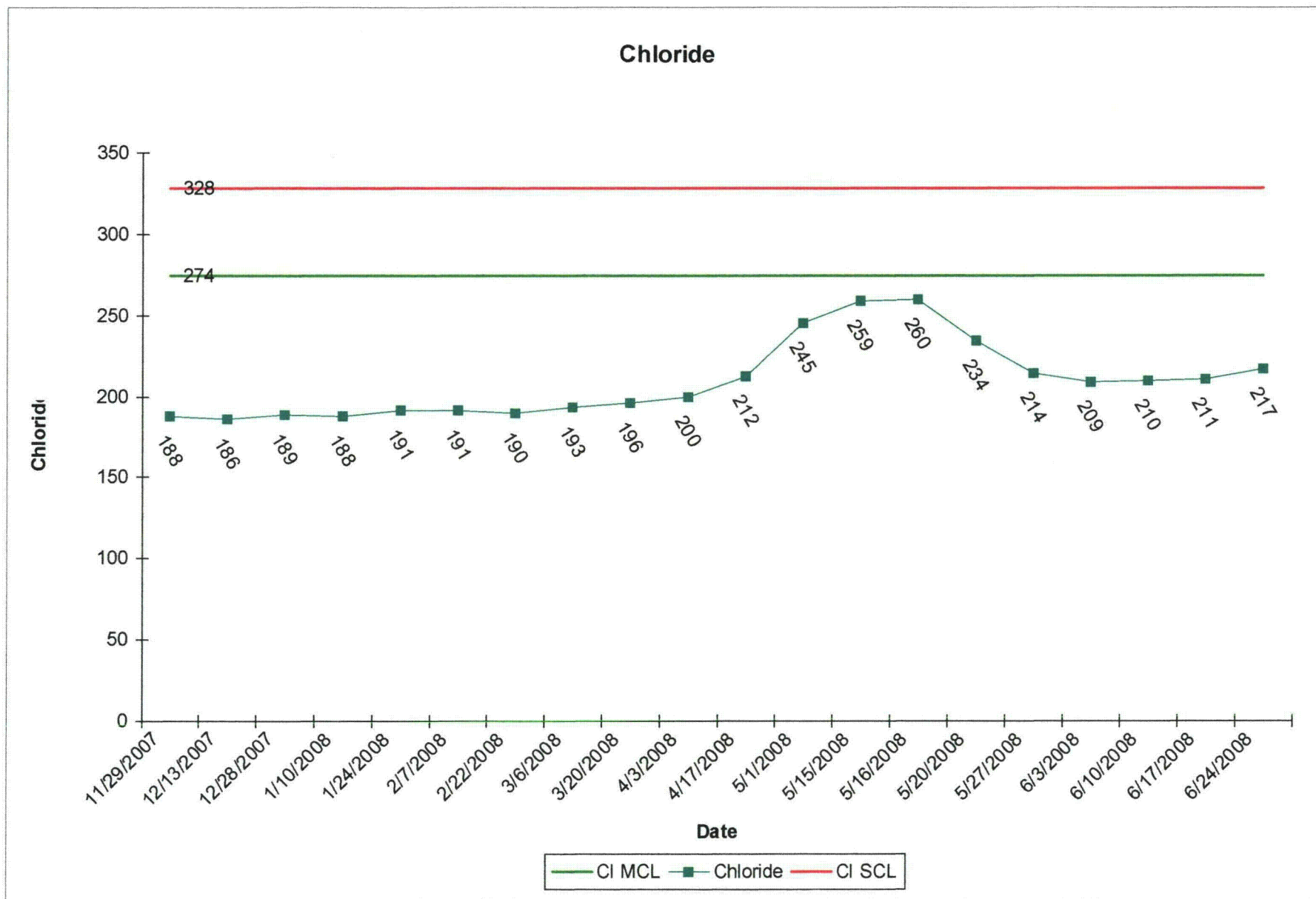
CM9-5



CM9-5



CM9-5



CM9-5

